Patent claims

1. Compounds of the formula (I)

$$CKE \xrightarrow{X} Y$$
 (I)

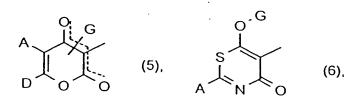
5 in which

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- X represents halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylsulphinyl, alkylsulphonyl, halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro, cyano or in each case optionally substituted phenyl, phenoxy, phenylthio, phenylalkoxy or phenylalkylthio,
- Z represents in each case optionally substituted cycloalkyl, aryl or hetaryl,
- W and Y independently of one another each represent hydrogen, halogen, alkyl, alkoxy, alkenyloxy, halogenoalkyl, halogenoalkoxy, halogenoalkenyloxy, nitro or cyano,

CKE represents one of the groups



A
$$Q^1$$
 Q^2 Q^3 Q^4 Q^5 Q^6 Q^6 Q^8).

- A represents hydrogen, in each case optionally halogensubstituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, saturated or unsaturated, optionally substituted cycloalkyl in which optionally at least one ring atom is replaced by a heteroatom, or in each case optionally halogen-, alkyl-, halogenoalkyl-, alkoxy-, halogenoalkoxy-, cyano- or nitro-substituted aryl, arylalkyl or hetaryl,
- B represents hydrogen, alkyl or alkoxyalkyl, or
- A and B together with the carbon atom to which they are attached represent a saturated or unsaturated unsubstituted or substituted cycle which optionally contains at least one heteroatom,
- D represents hydrogen or an optionally substituted radical selected from the series consisting of alkyl, alkenyl, alkinyl, alkoxyalkyl, polyalkoxyalkyl, alkylthioalkyl, saturated or unsaturated cycloalkyl in which one or more ring members are optionally replaced by heteroatoms, arylalkyl, aryl, hetarylalkyl or hetaryl or

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	A and	D together with the atoms to which they are attached represent a
		saturated or unsaturated ring which is unsubstituted or
		substituted in the A,D moiety and which optionally contains at
5		least one (in the case where CKE = (4) further) heteroatom, or
10	A and	Q1 together represent alkanediyl or alkenediyl, each of which is optionally substituted by in each case optionally substituted alkyl, hydroxyl, alkoxy, alkylthio, cycloalkyl, benzyloxy or aryl, or
	Q ¹	represents hydrogen or alkyl,
	Q^2 , Q	Q^4 , Q^5 and Q^6 independently of one another each represent
15		hydrogen or alkyl,
	Q^3	represents hydrogen, alkyl, alkoxyalkyl, alkylthioalkyl, optionally substituted cycloalkyl (in which optionally one methylene group is replaced by oxygen or sulphur) or
20		optionally substituted phenyl, or
	Q^3 an	d Q ⁴ together with the carbon atom to which they are attached
		represent a saturated or unsaturated unsubstituted or substituted
25		ring which optionally contains a heteroatom,
	G	represents hydrogen (a) or represents one of the groups

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in which

- 5 E represents a metal ion equivalent or an ammonium ion,
 - L represents oxygen or sulphur,
 - M represents oxygen or sulphur,
 - R1 represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, alkylthioalkyl, polyalkoxyalkyl or optionally halogen-, alkyl- or alkoxysubstituted cycloalkyl which may be interrupted by at least one heteroatom, in each case optionally substituted phenyl, phenylalkyl, hetaryl, phenoxyalkyl or hetaryloxyalkyl,
 - R² represents in each case optionally halogen-substituted alkyl, alkenyl, alkoxyalkyl, polyalkoxyalkyl or represents in each case optionally substituted cycloalkyl, phenyl or benzyl,
 - R³, R⁴ and R⁵ independently of one another each represent in each case optionally halogen-substituted alkyl, alkoxy, alkylamino, dialkylamino, alkylthio, alkenylthio, cyclo-

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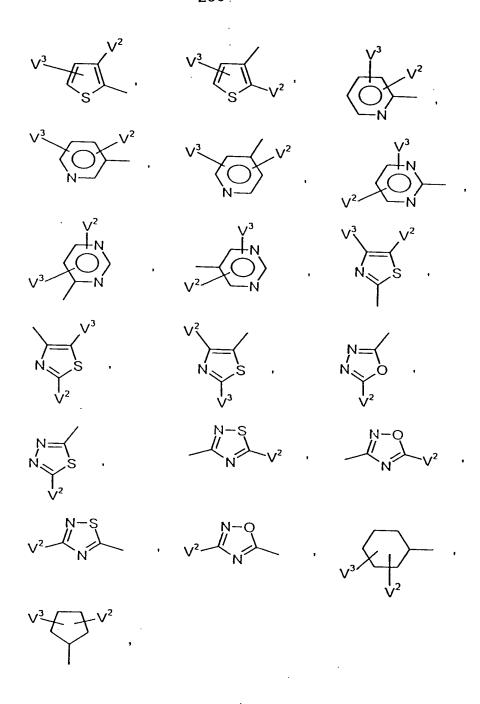
alkylthio or represent in each case optionally substituted phenyl, benzyl, phenoxy or phenylthio,

R⁶ and R⁷ independently of one another each represent hydrogen, in each case optionally halogen-substituted alkyl, cycloalkyl, alkenyl, alkoxy, alkoxyalkyl, represent optionally substituted phenyl, represent optionally substituted benzyl, or together with the nitrogen atom to which they are attached represent a cycle which is optionally interrupted by oxygen or sulphur.

2. Compounds of the formula (I) according to Claim 1 in which

15 X represents halogen, C₁-C₆-alkyl, C₁-C₆-halogenoalkyl, C₁-C₆-alkoxy, C₃-C₆-alkenyloxy, C₁-C₆-alkylthio, C₁-C₆-alkylsulphinyl, C₁-C₆-alkylsulphonyl, C₁-C₆-halogenoalkoxy, C₃-C₆-halogenoalkoxy, nitro, cyano or in each case optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-alkoxy-, C₁-C₄-halogenoalkyl-, C₁-C₄-halogenoalkoxy-, nitro- or cyano-substituted phenyl, phenoxy, phenylthio, benzyloxy or benzylthio,

Z represents one of the radicals



represents hydrogen, halogen, C_1 - C_{12} -alkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -alkylthio, C_1 - C_6 -alkylsulphinyl, C_1 - C_6 -alkylsulphonyl, C_1 - C_4 -halogenoalkyl, C_1 - C_4 -halogenoalkoxy, nitro, cyano or phenyl, phenoxy, phenoxy- C_1 - C_4 -alkyl, phenyl- C_1 - C_4 -alkoxy, phenylthio- C_1 - C_4 -alkyl or phenyl- C_1 - C_4 -alkylthio, each of which is optionally mono-

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or polysubstituted by halogen, C_1 - C_6 -alkyl, C_1 - C_6 -alkoxy, C_1 - C_4 -halogenoalkyl, C_1 - C_4 -halogenoalkoxy, nitro or cyano,

V² and V³ independently of one another each represent hydrogen, halogen, C_1 - C_6 -alkyl, C_1 - C_6 -alkoxy, C_1 - C_4 -halogenoalkyl or C_1 - C_4 -halogenoalkoxy,

W and Y independently of one another each represent hydrogen, halogen, C_1 - C_6 -alkyl, C_1 - C_6 -halogenoalkyl, C_1 - C_6 -alkoxy, C_1 - C_6 -halogenoalkoxy, nitro or cyano,

CKE represents one of the groups

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- represents hydrogen or in each case optionally halogen-substituted C₁-C₁₂-alkyl, C₃-C₈-alkenyl, C₁-C₁₀-alkoxy-C₁-C₈-alkyl, poly-C₁-C₈-alkoxy-C₁-C₈-alkyl, C₁-C₁₀-alkylthio-C₁-C₆-alkyl, optionally halogen-, C₁-C₆-alkyl- or C₁-C₆-alkoxy-substituted C₃-C₈-cycloalkyl in which optionally one or two not directly adjacent ring members are replaced by oxygen and/or sulphur or represents in each case optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-halogenoalkyl-, C₁-C₆-alkoxy-, C₁-C₆-halogenoalkoxy-, cyano- or nitro-substituted C₆-or C₁₀-aryl, hetaryl having 5 or 6 ring atoms or C₆- or C₁₀-aryl-C₁-C₆-alkyl,
- B represents hydrogen, C₁-C₁₂-alkyl or C₁-C₈-alkoxy-C₁-C₆-alkyl or
- A, B and the carbon atom to which they are attached represent saturated C₃-C₁₀-cycloalkyl or unsaturated C₅-C₁₀-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur and which are optionally mono- or disubstituted by C₁-C₈-alkyl, C₃-C₁₀-cycloalkyl, C₁-C₈-halogenoalkyl, C₁-C₈-alkoxy, C₁-C₈-alkylthio, halogen or phenyl or
- A, B and the carbon atom to which they are attached represent C₃-C₆-cycloalkyl which is substituted by an alkylenediyl group which optionally contains one or two not directly adjacent oxygen and/or sulphur atoms, or by an alkylenedioxyl group or by an alkylenedithioyl group which, together with the carbon atom to which it is attached, forms a further five- to eight-membered ring, or
- A, B and the carbon atom to which they are attached represent C₃-C₈-cycloalkyl or C₅-C₈-cycloalkenyl, in which two substituents together with the carbon atoms to which they are attached represent in each case optionally C₁-C₆-alkyl-, C₁-C₆-alkoxy- or halogen-substituted

D

 C_2 - C_6 -alkanediyl, C_2 - C_6 -alkenediyl or C_4 - C_6 -alkanedienediyl in which optionally one methylene group is replaced by oxygen or sulphur,

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represents hydrogen, in each case optionally halogen-substituted C₁-C₁₂-alkyl, C₃-C₈-alkenyl, C₃-C₈-alkinyl, C₁-C₁₀-alkoxy-C₂-C₈-alkyl, poly-C₁-C₈-alkoxy-C₂-C₈-alkyl, C₁-C₁₀-alkylthio-C₂-C₈-alkyl, optionally halogen-, C₁-C₄-alkyl-, C₁-C₄-alkoxy- or C₁-C₄-halogenoalkyl-substituted C₃-C₈-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur or in each case optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-halogenoalkyl-, C₁-C₆-alkoxy-, C₁-C₆-halogenoalkoxy-, cyano- or nitro-substituted phenyl, hetaryl having 5 or 6 ring atoms, phenyl-C₁-C₆-alkyl or hetaryl-C₁-C₆-alkyl having 5 or 6 ring atoms, or

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A and D together represent in each case optionally substituted C₃-C₆-alkanediyl or C₃-C₆-alkenediyl in which optionally one methylene group is replaced by oxygen or sulphur, possible substituents in each case being:

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halogen, hydroxyl, mercapto or in each case optionally halogen-substituted C₁-C₁₀-alkyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₃-C₇-cycloalkyl, phenyl or benzyloxy, or a further C₃-C₆-alkanediyl group, C₃-C₆-alkenediyl group or a butadienyl group which is optionally substituted by C₁-C₆-alkyl or in which optionally two adjacent substituents together with the carbon atoms to which they are attached form a further saturated or unsaturated ring having 5 or 6 ring atoms (in the case of the compound of the formula (I-1), A and D, together with the atoms to which they are attached, then represent, for example, the groups AD-1 to AD-10 mentioned further below) which ring may contain oxygen or sulphur, or which may optionally contain one of the groups below

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or

below

A and Q1 together represent C3-C6-alkanediyl or C4-C6-alkenediyl, each of which is optionally mono- or disubstituted by identical or different substituents selected from the group consisting of halogen, hydroxyl; 10 C₁-C₁₀-alkyl, C₁-C₆-alkoxy, C₁-C₆-alkylthio, C₃-C₇-cycloalkyl, each of which is optionally mono- to trisubstituted by identical or different halogens; and benzyloxy and phenyl, each of which is optionally mono- to trisubstituted by identical or different substituents selected from the group consisting of halogen, C1-C6-alkyl or C1-C6alkoxy, and which furthermore optionally contains one of the groups

or is bridged by a C₁-C₂-alkanediyl group or by an oxygen atom, or

Q1 represents hydrogen or C1-C4-alkyl,

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- Q^2 , Q^4 , Q^5 and Q^6 independently of one another each represent hydrogen or $C_1\text{-}C_4\text{-alkyl}$,
- represents hydrogen, C₁-C₆-alkyl, C₁-C₆-alkoxy-C₁-C₂-alkyl, C₁-C₆-alkylthio-C₁-C₂-alkyl, optionally C₁-C₄-alkyl- or C₁-C₄-alkoxy-substituted C₃-C₈-cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur or optionally halogen-, C₁-C₄-alkyl-, C₁-C₄-alkoxy-, C₁-C₂-halogenoalkyl-, C₁-C₂-halogenoalkoxy-, cyano- or nitro-substituted phenyl, or
 - Q^3 and Q^4 together with the carbon atom to which they are attached represent an optionally C_1 - C_4 -alkyl-, C_1 - C_4 -alkoxy- or C_1 - C_2 -halogenoalkyl-substituted C_3 - C_7 -ring in which optionally one ring member is replaced by oxygen or sulphur,
 - G represents hydrogen (a) or represents one of the groups

$$R^1$$
 (b), R^2 (c), $SO_{\frac{1}{2}}R^3$ (d), R^5 (e), R^6

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- E represents a metal ion or an ammonium ion,
- L represents oxygen or sulphur and

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M represents oxygen or sulphur,

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represents in each case optionally halogen-substituted C₁-C₂₀-alkyl, C₂-C₂₀-alkenyl, C₁-C₈-alkoxy-C₁-C₈-alkyl, C₁-C₈-alkylthio-C₁-C₈-alkyl, poly-C₁-C₈-alkoxy-C₁-C₈-alkyl or optionally halogen-, C₁-C₆-alkyl- or C₁-C₆-alkoxy-substituted C₃-C₈-cycloalkyl in which optionally one or more not directly adjacent ring members are replaced by oxygen and/or sulphur,

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represents optionally halogen-, cyano-, nitro-, C_1 - C_6 -alkyl-, C_1 - C_6 -alkoxy-, C_1 - C_6 -halogenoalkyl-, C_1 - C_6 -halogenoalkoxy-, C_1 - C_6 -alkylthio- or C_1 - C_6 -alkylsulphonyl-substituted phenyl,

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represents optionally halogen-, nitro-, cyano-, C_1 - C_6 -alkyl-, C_1 - C_6 -alkoxy-, C_1 - C_6 -halogenoalkyl- or C_1 - C_6 -halogenoalkoxy-substituted phenyl- C_1 - C_6 -alkyl,

		represents optionally halogen- or C _I -C ₆ -alkyl-substituted 5- or 6-membered hetaryl,
5		represents optionally halogen- or C_1 - C_6 -alkyl-substituted phenoxy- C_1 - C_6 -alkyl or
		represents optionally halogen-, amino- or C ₁ -C ₆ -alkyl-substituted 5- or 6-membered hetaryloxy-C ₁ -C ₆ -alkyl,
10	R ²	represents in each case optionally halogen-substituted C_1 - C_{20} -alkyl, C_2 - C_{20} -alkenyl, C_1 - C_8 -alkoxy- C_2 - C_8 -alkyl, poly- C_1 - C_8 -alkoxy- C_2 - C_8 -alkyl,
15		represents optionally halogen-, C_1 - C_6 -alkyl- or C_1 - C_6 -alkoxy-substituted C_3 - C_8 -cycloalkyl or
20		represents in each case optionally halogen-, cyano-, nitro-, C_1 - C_6 -alkyl-, C_1 - C_6 -alkoxy-, C_1 - C_6 -halogenoalkyl- or C_1 - C_6 -halogenoalkoxy-substituted phenyl or benzyl,
25	R ³	represents optionally halogen-substituted C_1 - C_8 -alkyl or represents in each case optionally halogen-, C_1 - C_6 -alkyl-, C_1 - C_6 -alkoxy-, C_1 - C_4 -halogenoalkyl-, C_1 - C_4 -halogenoalkoxy-, cyano- or nitro-substituted phenyl or benzyl,
	R ⁴ ar	optionally halogen-substituted C ₁ -C ₈ -alkyl, C ₁ -C ₈ -alkoxy, C ₁ -C ₈ -alkylamino dis(C ₁ -
30		alkylamino, di-(C ₁ -C ₈ -alkyl)amino, C ₁ -C ₈ -alkylthio, C ₂ -C ₈ -alkenylthio, C ₃ -C ₇ -cycloalkylthio or represent in each case optionally halogen-, nitro-, cyano-, C ₁ -C ₄ -alkoxy-, C ₁ -C ₄ -halogenoalkoxy-,

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 C_1 - C_4 -alkylthio-, C_1 - C_4 -halogenoalkylthio-, C_1 - C_4 -alkyl- or C_1 - C_4 -halogenoalkyl-substituted phenyl, phenoxy or phenylthio,

R⁶ and R⁷ independently of one another each represent hydrogen, represent in

each case optionally halogen-substituted C₁-C₈-alkyl, C₃-C₈-cycloalkyl, C₁-C₈-alkoxy, C₃-C₈-alkenyl, C₁-C₈-alkoxy-C₁-C₈-alkyl, represent optionally halogen-, C₁-C₈-halogenoalkyl-, C₁-C₈-alkyl- or C₁-C₈-alkoxy-substituted phenyl, optionally halogen-, C₁-C₈-alkyl-, C₁-C₈-halogenoalkyl- or C₁-C₈-alkoxy-substituted benzyl or together represent an optionally C₁-C₄-alkyl-substituted C₃-C₆-alkylene radical in which optionally one methylene group is replaced by oxygen or sulphur,

represents hydrogen, represents in each case optionally halogen-substituted C₁-C₈-alkyl or C₁-C₈-alkoxy, represents optionally halogen-, C₁-C₄-alkyl- or C₁-C₄-alkoxy-substituted C₃-C₈-cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur, or represents in each case optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-alkoxy-, C₁-C₄-halogenoalkyl-, C₁-C₄-halogenoalkoxy-, nitro- or cyano-substituted phenyl, phenyl-C₁-C₄-alkyl or phenyl-C₁-C₄-alkoxy,

R14 represents hydrogen or C1-C8-alkyl, or

25 R¹³ and R¹⁴ together represent C₄-C₆-alkanediyl,

 R^{15} and R^{16} are identical or different and each represent $C_1\text{-}C_6\text{-alkyl}$, or

R¹⁵ and R¹⁶ together represent a C₂-C₄-alkanediyl radical which is optionally substituted by C₁-C₆-alkyl, C₁-C₆-halogenoalkyl or by

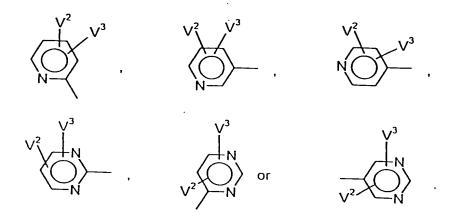
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optionally halogen-, C_1 - C_6 -alkyl-, C_1 - C_4 -halogenoalkyl-, C_1 - C_6 -alkoxy-, C_1 - C_4 -halogenoalkoxy-, nitro- or cyano-substituted phenyl,

- R¹⁷ and R¹⁸ independently of one another each represent hydrogen, represent optionally halogen-substituted C₁-C₈-alkyl or represent optionally halogen-, C₁-C₆-alkyl-, C₁-C₆-alkoxy-, C₁-C₄-halogenoalkyl-, C₁-C₄-halogenoalkoxy-, nitro- or cyano-substituted phenyl, or
- 10 represent a carbonyl group or represent optionally halogen-, C₁-C₄-alkyl- or C₁-C₄-alkoxy-substituted C₅-C₇-cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur and
- R¹⁹ and R²⁰ independently of one another each represent C₁-C₁₀-alkyl, C₂-C₁₀-alkenyl, C₁-C₁₀-alkoxy, C₁-C₁₀-alkylamino, C₃-C₁₀-alkenylamino, di-(C₁-C₁₀-alkyl)amino or di-(C₃-C₁₀-alkenyl)amino.
 - 3. Compounds of the formula (I) according to Claim 1 in which
- 20 X represents fluorine, chlorine, bromine, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_3 - C_4 -alkenyloxy, C_1 - C_4 -halogenoalkyl, C_1 - C_4 -halogenoalkoxy, C_3 - C_4 -halogenoalkenyloxy, nitro or cyano,
 - Z represents one of the radicals

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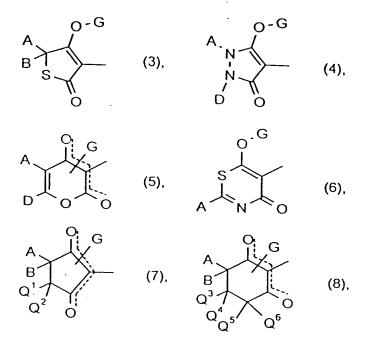


represents hydrogen, fluorine, chlorine, bromine, C_1 - C_6 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_2 -halogenoalkyl, C_1 - C_2 -halogenoalkoxy, nitro, cyano or phenyl, phenoxy, phenoxy- C_1 - C_2 -alkyl, phenyl- C_1 - C_2 -alkoxy, phenylthio- C_1 - C_2 -alkyl or phenyl- C_1 - C_2 -alkylthio, each of which is optionally mono- or disubstituted by fluorine, chlorine, bromine, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_2 -halogenoalkyl, C_1 - C_2 -halogenoalkyl, C_1 - C_2 -halogenoalkoxy, nitro or cyano,

 V^2 and V^3 independently of one another each represent hydrogen, fluorine, chlorine, bromine, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy, C_1 - C_2 -halogenoalkyl or C_1 - C_2 -halogenoalkoxy,

W and Y independently of one another each represent hydrogen, fluorine, chlorine, bromine, C₁-C₄-alkyl, C₁-C₄-halogenoalkyl, C₁-C₄-alkoxy or C₁-C₄-halogenoalkoxy,

CKE represents one of the groups



represents hydrogen or represents in each case optionally fluorine- or chlorine-substituted C₁-C₁₀-alkyl, C₁-C₈-alkoxy-C₁-C₆-alkyl, optionally fluorine-, chlorine-, C₁-C₄-alkyl- or C₁-C₄-alkoxy-substituted C₃-C₇-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur or (but not in the case of the compounds of the formulae (I-5), (I-7) and (I-8)) in each case optionally fluorine-, chlorine-, bromine-, C₁-C₄-alkyl-, C₁-C₄-halogenoalkyl-, C₁-C₄-alkoxy- or C₁-C₄-halogenoalkoxy-substituted phenyl, furanyl, pyridyl, imidazolyl, triazolyl, pyrazolyl, pyrimidyl, thiazolyl, thienyl or phenyl-C₁-C₄-alkyl,

B represents hydrogen or C₁-C₆-alkyl, or

A, B and the carbon atom to which they are attached represent saturated or unsaturated C₅-C₇-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur and which is optionally monosubstituted by C₁-C₆-alkyl, C₅-C₈-cycloalkyl, C₁-C₃-halogenoalkyl, C₁-C₆-alkoxy, fluorine, chlorine or phenyl, or

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- A, B and the carbon atom to which they are attached represent C₅-C₆-cycloalkyl which is substituted by an alkylenediyl group which optionally contains one or two not directly adjacent oxygen or sulphur atoms or by an alkylenedioxyl group or by an alkylenedithiol group which, together with the carbon atom to which it is attached, forms a further five- or six-membered ring, or
- A, B and the carbon atom to which they are attached represent C₃-C₆-cycloalkyl or C₅-C₆-cycloalkenyl in which two substituents together with the carbon atoms to which they are attached represent in each case optionally C₁-C₅-alkyl-, C₁-C₅-alkoxy-, fluorine-, chlorine- or bromine-substituted C₂-C₄-alkanediyl or C₂-C₄-alkenediyl, in which optionally one methylene group is replaced by oxygen or sulphur, or represent butadienediyl,
 - represents hydrogen, represents in each case optionally fluorine- or chlorine-substituted C₁-C₁₀-alkyl, C₃-C₆-alkenyl, C₁-C₈-alkoxy-C₂-C₆-alkyl or C₁-C₈-alkylthio-C₂-C₆-alkyl, represents optionally fluorine-, chlorine-, C₁-C₄-alkyl-, C₁-C₄-alkoxy- or C₁-C₂-halogeno-alkyl-substituted C₃-C₇-cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur or (but not in the case of the compounds of the formulae (I-1) and (I-4)) represents in each case optionally fluorine-, chlorine-, bromine-, C₁-C₄-alkyl-, C₁-C₄-halogenoalkyl-, C₁-C₄-alkoxy- or C₁-C₄-halogenoalkoxy-substituted phenyl, furanyl, imidazolyl, pyridyl, thiazolyl, pyrazolyl, pyrimidyl, pyrrolyl, thicnyl, triazolyl or phenyl-C₁-C₄-alkyl, or
- A and D together represent optionally substituted C₃-C₅-alkanediyl in which one methylene group may be replaced by a carbonyl group, oxygen or

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sulphur, possible substituents being hydroxyl, C_1 - C_6 -alkyl or C_1 - C_4 -alkoxy, or

A and D (in the case of the compounds of the formula (I-1)) together with the atoms to which they are attached represent one of the groups AD-1 to AD-10:

or

A and Q¹ together represent C₃-C₄-alkanediyl or C₃-C₄-alkenediyl, each of which is optionally mono- or disubstituted by identical or different substituents selected from the group consisting of fluorine, chlorine,

hydroxyl, and C_1 - C_8 -alkyl and C_1 - C_4 -alkoxy, each of which is optionally mono- to trisubstituted by fluorine, or

- Q1 represents hydrogen,
- Q² represents hydrogen,
- Q^4 , Q^5 and Q^6 independently of one another each represent hydrogen or $C_1\text{-}C_3\text{-alkyl}$,
- Q^3 represents hydrogen, C_1 - C_4 -alkyl, C_1 - C_4 -alkoxy- C_1 - C_2 -alkyl, C_1 - C_4 -alkylthio- C_1 - C_2 -alkyl or optionally methyl- or methoxy-substituted C_3 - C_6 -cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur, or
- Q^3 and Q^4 together with the carbon atom to which they are attached represent an optionally C_1 - C_4 -alkyl- or C_1 - C_4 -alkoxy-substituted saturated C_5 - C_6 -ring in which optionally one ring member is replaced by oxygen or sulphur,
- G represents hydrogen (a) or represents one of the groups

$$R^{1}$$
 (b), R^{2} (c), $SO_{\overline{2}}R^{3}$ (d), R^{5} (e), R^{5} (e), R^{7} (g).

in which

E

represents a metal ion or an ammonium ion,

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	L represents oxygen or sulphur and
	M represents oxygen or sulphur,
5 R	represents in each case optionally fluorine- or chlorine-substituted C ₁ -C ₁₆ -alkyl, C ₂ -C ₁₆ -alkenyl, C ₁ -C ₆ -alkoxy-C ₁ -C ₆ -alkyl, C ₁ -C ₆ -alkylthio-C ₁ -C ₆ -alkyl, poly-C ₁ -C ₆ -alkoxy-C ₁ -C ₆ -alkyl or optionally fluorine-, chlorine-, C ₁ -C ₅ -alkyl- or C ₁ -C ₅ -alkoxy-substituted C ₃ -C ₇ -cycloalkyl in which optionally one or two not directly adjacent ring
10	members are replaced by oxygen and/or sulphur,
15	represents optionally fluorine-, chlorine-, bromine-, cyano-, nitro-, C_1 - C_4 -alkyl-, C_1 - C_4 -alkoxy-, C_1 - C_3 -halogenoalkoxy-, C_1 - C_4 -alkylthio- or C_1 - C_4 -alkylsulphonyl-substituted phenyl,
20	represents optionally fluorine-, chlorine-, bromine-, C_1 - C_4 -alkyl-, C_1 - C_4 -alkoxy-, C_1 - C_3 -halogenoalkyl- or C_1 - C_3 -halogenoalkoxy-substituted phenyl- C_1 - C_4 -alkyl,
	represents in each case optionally fluorine-, chlorine-, bromine- or C ₁ -C ₄ -alkyl-substituted pyrazolyl, thiazolyl, pyridyl, pyrimidyl, furanyl or thienyl,
25	represents optionally fluorine-, chlorine-, bromine- or C_1 - C_4 -alkyl-substituted phenoxy- C_1 - C_3 -alkyl or
30	represents in each case optionally fluorine-, chlorine-, bromine-, amino- or C_1 - C_4 -alkyl-substituted pyridyloxy- C_1 - C_3 -alkyl, pyrimidyloxy- C_1 - C_3 -alkyl or thiazolyloxy- C_1 - C_3 -alkyl,

	R ²	represents in each case optionally fluorine-substituted C_1 - C_{16} -alkyl, C_2 - C_{16} -alkenyl, C_1 - C_6 -alkoxy- C_2 - C_6 -alkyl, or poly- C_1 - C_6 -alkoxy- C_2 - C_6 -alkyl,
5		represents optionally fluorine-, chlorine-, C ₁ -C ₄ -alkyl- or C ₁ -C ₄ -alkoxy-substituted C ₃ -C ₇ -cycloalkyl or
10		represents in each case optionally fluorine-, chlorine-, bromine-, cyano-, nitro-, C ₁ -C ₄ -alkyl-, C ₁ -C ₃ -alkoxy-, C ₁ -C ₃ -halogenoalkyl- or C ₁ -C ₃ -halogenoalkoxy-substituted phenyl or benzyl,
	R ³	represents optionally fluorine-substituted C_1 - C_6 -alkyl or represents in each case optionally fluorine-, chlorine-, bromine-, C_1 - C_4 -alkyl-, C_1 - C_4 -alkoxy-, C_1 - C_3 -halogenoalkyl-, C_1 - C_3 -halogenoalkoxy-, cyano- or nitro-substituted phenyl or benzyl,
20	R ⁴ and	d R ⁵ independently of one another each represent C ₁ -C ₆ -alkyl, C ₁ -C ₆ -alkoxy, C ₁ -C ₆ -alkylamino, di-(C ₁ -C ₆ -alkyl)amino, C ₁ -C ₆ -alkylthio, C ₃ -C ₄ -alkenylthio, C ₃ -C ₆ -cycloalkylthio or represent in each case optionally fluorine-, chlorine-, bromine-, nitro-, cyano-, C ₁ -C ₃ -alkoxy-, C ₁ -C ₃ -halogenoalkoxy-, C ₁ -C ₃ -alkylthio-, C ₁ -C ₃ -halogenoalkyl-substituted phenyl, phenoxy or phenylthio, and
25	R ⁶ an	d R^7 independently of one another each represent hydrogen, C_1 - C_6 -alkyl, C_3 - C_6 -cycloalkyl, C_1 - C_6 -alkoxy, C_3 - C_6 -alkenyl, C_1 - C_6 -alkoxy- C_1 - C_6 -alkyl, represent optionally fluorine-, chlorine-, bromine-, C_1 - C_3 -halogenoalkyl-, C_1 - C_4 -alkyl- or C_1 - C_4 -alkoxy-substituted phenyl, represent optionally fluorine-, chlorine-, bromine-,
30		C_1 - C_4 -alkyl-, C_1 - C_3 -halogenoalkyl- or C_1 - C_4 -alkoxy-substituted benzyl, or together represent an optionally methyl- or ethyl-substituted

 C_4 - C_5 -alkylene radical in which optionally one methylene group is replaced by oxygen or sulphur.

- 4. Compounds of the formula (I) according to Claim 1 in which
 - represents fluorine, chlorine, methyl, ethyl, propyl, iso-propyl, methoxy, ethoxy, propoxy, iso-propoxy, trifluoromethyl, difluoromethoxy, trifluoromethoxy, nitro or cyano,
- 10 Z represents one of the radicals

- represents hydrogen, fluorine, chlorine, bromine, methyl, ethyl, n-propyl, iso-propyl, n-butyl, iso-butyl, tert-butyl, methoxy, ethoxy, n-propoxy, iso-propoxy, trifluoromethyl, trifluoromethoxy, nitro, cyano or phenyl which is optionally monosubstituted by fluorine, chlorine, methyl, methoxy, trifluoromethyl or trifluoromethoxy,
- V² and V³ independently of one another each represent hydrogen, fluorine, chlorine, methyl, ethyl, n-propyl, iso-propyl, methoxy, ethoxy, trifluoromethyl or trifluoromethoxy,
 - W and Y independently of one another each represent hydrogen, fluorine, chlorine, methyl, ethyl, n-propyl, methoxy, ethoxy or propoxy,

15

CKE represents one of the groups

5

represents hydrogen or represents in each case optionally fluorine-substituted C₁-C₈-alkyl or C₁-C₆-alkoxy-C₁-C₄-alkyl, optionally fluorine-, methyl-, ethyl- or methoxy-substituted C₃-C₆-cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur or (but not in the case of the compounds of the formulae (I-5), (I-7) and (I-8)) represents in each case optionally fluorine-, chlorine-, bromine-, methyl-, ethyl-, n-propyl-, iso-propyl-, methoxy-, ethoxy-, trifluoromethyl-, trifluoromethoxy-, cyano- or nitro-substituted phenyl or benzyl,

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- A, B and the carbon atom to which they are attached represent saturated C_5 - C_6 -cycloalkyl in which optionally one ring member is replaced by oxygen or sulphur and which is optionally monosubstituted by methyl, ethyl, propyl, isopropyl, butyl, iso-butyl, sec-butyl, tert-butyl, trifluoromethyl, methoxy, ethoxy, propoxy, iso-propoxy, butoxy, isobutoxy, sec-butoxy, tert-butoxy, fluorine or chlorine, or
- A, B and the carbon atom to which they are attached represent C₅-C₆-cycloalkyl or C₅-C₆-cycloalkenyl in which two substituents together with the carbon atoms to which they are attached represent C₂-C₄-alkanediyl or C₂-C₄-alkenediyl in which in each case optionally one methylene group is replaced by oxygen or sulphur, or represent butadienediyl,
- represents hydrogen, represents in each case optionally fluorine- or chlorine-substituted C₁-C₈-alkyl, C₃-C₄-alkenyl, C₁-C₆-alkoxy-C₂-C₄-alkyl, C₁-C₄-alkylthio-C₂-C₄-alkyl or C₃-C₆-cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur or (but not in the case of the compounds of the formulae (I-1) and (I-4)) represents in each case optionally fluorine-, chlorine-, methyl-, ethyl-, n-propyl-, iso-propyl-, methoxy-, ethoxy-, trifluoromethyl- or trifluoromethoxy-substituted phenyl, furanyl, pyridyl, thienyl or benzyl,

or

A and D together represent optionally substituted C₃-C₄-alkanediyl in which optionally one carbon atom is replaced by sulphur and which is optionally substituted by hydroxyl, methyl, ethyl, methoxy or ethoxy, or

A and D (in the case of the compounds of the formula (I-1)) together with the atoms to which they are attached represent one of the following groups AD:

5

A and Q^1 together represent C_3 - C_4 -alkanediyl or butenediyl, each of which is optionally mono- or disubstituted by fluorine, hydroxyl, methyl or methoxy, or

10

- Q1 represents hydrogen,
- Q² represents hydrogen,

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 $Q^4,\,Q^5$ and Q^6 independently of one another each represent hydrogen, methyl or ethyl,

- Q³ represents hydrogen, methyl, ethyl or C₃-C₆-cycloalkyl in which optionally one methylene group is replaced by oxygen or sulphur, or
- Q^3 and Q^4 together with the carbon atom to which they are attached represent an optionally methyl- or methoxy-substituted saturated C_5 - C_6 -ring in which optionally one ring member is replaced by oxygen or sulphur,
- G represents hydrogen (a) or represents one of the groups

$$R^{1}$$
 (b), R^{2} (c), $SO_{\frac{1}{2}}R^{3}$ (d), R^{5} (e), R^{6} (e), R^{7} (g).

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- E represents a metal ion or an ammonium ion,
- L represents oxygen or sulphur and
 - M represents oxygen or sulphur,
- represents in each case optionally fluorine- or chlorine-substituted C1-C14-alkyl, C2-C14-alkenyl, C1-C4-alkoxy-C1-C6-alkyl, C1-C4-alkylthio-C1-C6-alkyl, poly-C1-C4-alkoxy-C1-C4-alkyl or optionally fluorine-, chlorine-, methyl-, ethyl-, propyl-, i-propyl-, butyl-, i-butyl-, tert-butyl-, methoxy-, ethoxy-, n-propoxy- or iso-propoxy-substituted C3-C6-cycloalkyl in which optionally one or two not directly adjacent ring members are replaced by oxygen and/or sulphur,

represents optionally fluorine-, chlorine-, bromine-, cyano-, nitro-, methyl-, ethyl-, n-propyl-, i-propyl-, methoxy-, ethoxy-, trifluoromethyl-, trifluoromethoxy-, methylthio-, ethylthio-, methylsulphonylor ethylsulphonyl-substituted phenyl, represents optionally fluorine-, chlorine-, bromine-, methyl-, ethyl-, n-propyl-, i-propyl-, methoxy-, ethoxy-, trifluoromethyl- or trifluoromethoxy-substituted benzyl, represents in each case optionally fluorine-, chlorine-, bromine-, methyl- or ethyl-substituted furanyl, thienyl, pyridyl, pyrimidyl, thiazolyl or pyrazolyl, represents optionally fluorine-, chlorine-, methyl- or ethyl-substituted phenoxy-C₁-C₂-alkyl or represents in each case optionally fluorine-, chlorine-, amino-, methylor ethyl-substituted pyridyloxy-C₁-C₂-alkyl, pyrimidyloxy-C₁-C₂alkyl or thiazolyloxy-C1-C2-alkyl, R^2 represents in each case optionally fluorine-substituted C1-C14-alkyl, C2-C14-alkenyl, C1-C4-alkoxy-C2-C6-alkyl or poly-C1-C4-alkoxy-C2-C6-alkyl, represents optionally fluorine-, chlorine-, methyl-, ethyl-, n-propyl-, iso-propyl- or methoxy-substituted C3-C6-cycloalkyl,

or represents in each case optionally fluorine-, chlorine-, cyano-, nitro-, methyl-, ethyl-, n-propyl-, i-propyl-, methoxy-, ethoxy-,

trifluoromethyl- or trifluoromethoxy-substituted phenyl or benzyl,

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- represents in each case optionally fluorine-substituted methyl, ethyl, n-propyl, isopropyl or in each case optionally fluorine-, chlorine-, bromine-, methyl-, tert-butyl-, methoxy-, trifluoromethyl-, trifluoromethoxy-, cyano- or nitro-substitued phenyl or benzyl,
- R⁴ and R⁵ independently of one another each represent C₁-C₄-alkyl, C₁-C₄-alkoxy, C₁-C₄-alkylamino, di-(C₁-C₄-alkyl)amino, C₁-C₄-alkylthio or represent in each case optionally fluorine-, chlorine-, bromine-, nitro-, cyano-, C₁-C₂-alkoxy-, C₁-C₂-fluoroalkoxy-, C₁-C₂-alkylthio-, C₁-C₂-fluoroalkylthio- or C₁-C₃-alkyl-substituted phenyl, phenoxy or phenylthio, and
- R⁶ and R⁷ independently of one another each represent hydrogen, represent C₁-C₄-alkyl, C₃-C₆-cycloalkyl, C₁-C₄-alkoxy, C₃-C₄-alkenyl, C₁-C₄-alkoxy-C₁-C₄-alkyl, represent optionally fluorine-, chlorine-, bromine-, trifluoromethyl-, methyl- or methoxy-substituted phenyl, represent optionally fluorine-, chlorine-, bromine-, methyl-, trifluoromethyl- or methoxy-substituted benzyl, or together represent a C₅-C₆-alkylene radical in which optionally one methylene group is replaced by oxygen or sulphur.
- 5. Process for preparing compounds of the formula (I) according to Claim 1, characterized in that
- 25 (A) Compounds of the formula (I-1-a)

A, B, D, W, X, Y and Z are each as defined in Claim 1

are obtained when

N-acylamino acid esters of the formula (II)

$$A \xrightarrow{CO_2R^8} A \xrightarrow{R} X$$

$$D \xrightarrow{N} Q \xrightarrow{X} Y$$

$$(II)$$

10

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in which

A, B, D, W, X, Y and Z are each as defined above

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and

R8 represents alkyl

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(B) Compounds of the formula (I-2-a)

in which

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A, B, W, X, Y and Z are each as defined above

are obtained when

10

carboxylic esters of the formula (III)

in which

15

A, B, X, Y, Z and R⁸ are each as defined above

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

20

(C) Compounds of the formula (1-3-a)

A, B, W, X, Y and Z are each as defined above

are obtained when

ß-ketocarboxylic esters of the formula (IV)

10

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in which

A, B, W, X, Y, Z and R⁸ are each as defined above and

W¹ represents hydrogen, halogen, alkyl or alkoxy

15

are cyclized intramolecularly, if appropriate in the presence of a diluent and in the presence of an acid,

(D) Compounds of the formula (I-4-a)

$$\begin{array}{c} A & D \\ I & I \\ N-N \\ \end{array}$$

$$W \qquad Y \qquad \qquad (I-4-a)$$

A, D, W, X, Y and Z are each as defined above

5

are obtained when

(α) halogenocarbonyl ketenes of the formula (V)

$$\begin{array}{c}
O \\
Hal-C \\
O=C=C
\end{array}$$

$$\begin{array}{c}
X \\
Y
\end{array}$$

$$\begin{array}{c}
(V)
\end{array}$$

10

in which

W, X, Y and Z are each as defined above

and

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Hal represents halogen

or

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(B) malonic acid derivatives of the formula (VI)

$$\begin{array}{c|c} Z & W & C - OR^8 \\ Y & C - OR^8 \\ X & C - OR^8 \end{array}$$

$$(VI)$$

 R^8 , W, X, Y and Z are each as defined above

are reacted with hydrazines of the formula (VII)

A-NH-NH-D

(VII)

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in which

A and D are e

are each as defined above

if appropriate in the presence of a diluent and if appropriate in the presence of a base,

(E) Compounds of the formula (I-5-a)

$$D \xrightarrow{O} \xrightarrow{O} X \qquad \qquad (I-5-a)$$

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in which

A, D, W, X, Y and Z are each as defined above,

are obtained when

carbonyl compounds of the formula (VIII)

O || D-C-CH₂-A (VIII)

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in which

A and D

are each as defined above

or their silyl enol ethers of the formula (VIIIa)

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in which

A, D and R⁸ are each as defined above

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are reacted with ketene acid halides of the formula (V)

in which

20

W, X, Y and Z are each as defined above and

Hal represents halogen,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid acceptor,

(F) Compounds of the formula (I-6-a)

$$A$$
 S
 OH
 Z
 $(I-6-a)$

in which

5

A, X, Y and Z are each as defined above

are obtained when thioamides of the formula (IX)

in which

10

A is as defined above

are reacted with ketene acid halides of the formula (V)

15

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in which

Hal, W, X, Y and Z are each as defined above,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid acceptor,

(G) Compounds of the formula (1-7-a)

A, B,Q1, Q2, W, X, Y and Z are each as defined in Claim 1

are obtained when

ketocarboxylic esters of the formula (X)

$$R^8O_2C$$
 A
 B
 O
 X
 X
 Y
 X

10

5

in which

A, B, Q^1 , Q^2 , W, X, Y and Z are each as defined above and

15

R⁸ represents alkyl

are cyclized intramolecularly, if appropriate in the presence of a diluent and in the presence of a base,

20

(H) Compounds of the formula (I-8-a)

A, B, Q³, Q⁴, Q⁵, Q⁶, W, X, Y and Z are each as defined in Claim 1

are obtained when

6-aryl-5-keto-hexanoic esters of the formula (XI)

$$R^{8}O_{2}C$$

$$Q^{5}$$

$$Q^{6}$$

$$X$$

$$Z$$

$$Y$$

$$(XI)$$

in which

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A, B, Q^3 , Q^4 , Q^5 , Q^6 , W, X, Y and Z are each as defined above

15 and

R⁸ represents alkyl

are condensed intramolecularly in the presence of a diluent and in the presence of a base,

(I) Compounds of the formulae (I-8-a) shown above in which A, B, D, Q¹, Q², Q³, Q⁴, Q⁵, Q⁶, W, X, Y and Z are each as defined above are obtained when compounds of the formulae (I-1'-a) to (I-8'-a),

(I-7'-a): (I-8'-a):

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A, B, D, Q¹, Q², Q³, Q⁴, Q⁵, Q⁶, W, X, Y and Z are each as defined above and

Z' represents chlorine, bromine or iodine

are reacted with boronic acids of the formula (XII)

in which

Z is as defined above

in the presence of a solvent, a base and a catalyst and the resulting compounds of the formulae (I-1-a) to (I-8-a) are subsequently in each case

(Jα) reacted with acyl halides of the formula (XIII)

R1 is as defined in Claim 1 and

Hal represents halogen

or

(B) reacted with carboxylic anhydrides of the formula (XIV)

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 R^{1} -CO-O-CO- R^{1} (XIV)

in which

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R1 is as defined above, if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder, or in each case

(K)

(K) reacted with chloroformic esters or chloroformic thioesters of the formula (XV)

R²-M-CO-Cl

(XV)

in which

25

R² and M are each as defined in Claim 1,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder, or in each case

(L) reacted with chloromonothioformic esters or chlorodithioformic esters of the formula (XVI)

$$CI \longrightarrow M-R^2$$
 (XVI)

in which

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M and R² are each as defined above

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder, or in each case

(M) reacted with sulphonyl chlorides of the formula (XVII)

$$R^3$$
-SO₂-CI (XVII)

in which

R³ is as defined in Claim 1,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder, or in each case

(N) reacted with phosphorus compounds of the formula (XVIII)

$$R^4$$
Hal-P
 $II \setminus R^5$
(XVIII)

in which

L, R⁴ and R⁵ are each as defined in Claim 1 and

Hal represents halogen,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder, or in each case

(O) reacted with metal compounds or amines of the formulae (XIX) or (XX)

$$R^{10} R^{10} \times R^{11}$$
 $R^{10} \times R^{11} \times R^{11}$
 $R^{10} \times R^{11} \times R^{11} \times R^{11}$
 $R^{10} \times R^{11} \times R^{11} \times R^{11}$

in which

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Me represents a mono- or divalent metal,

t represents the number 1 or 2 and

R¹⁰, R¹¹, R¹² independently of one another each represent hydrogen or alkyl,

if appropriate in the presence of a diluent, or in each case

(Pα) reacted with isocyanates or isothiocyanates of the formula (XXI)

$$R^6-N=C=L$$
 (XXI)

25 in which

R⁶ and L are each as defined in Claim 1,

if appropriate in the presence of a diluent and if appropriate in the presence of a catalyst, or in each case

(B) reacted with carbamoyl chlorides or thiocarbamoyl chlorides of the formula (XXII)

$$R^{5}$$
 N CI $(XXII)$

in which

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L, R⁶ and R⁷ are each as defined in Claim 1,

if appropriate in the presence of a diluent and if appropriate in the presence of an acid binder.

6. Compounds of the formula (II)

in which

A, B, D, W, X, Y and Z are each as defined in Claim 1 and

R⁸ represents alkyl.

7. Compounds of the formula (XXIV)

$$\begin{array}{c} X \\ Y \longrightarrow \\ Z \longrightarrow \\ W \end{array} COHal \qquad (XXIV)$$

in which

W, X, Y and Z are each as defined in Claim 1 and

Hal represents chlorine or bromine.

8. Compounds of the formula (XXV)

in which

A, B, D, W, W, X, Y and Z are each as defined in Claim 1.

9. Compounds of the formula (XXIX)

in which

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A, B, D, W, X, Y and Z are each as defined in Claim 1.

10. Compounds of the formula (III)

A, B, W, X, Y and Z are each as defined above and

R⁸ represents alkyl.

11. Compounds of the formula (XXVII)

$$Y \longrightarrow X$$
 CO_2H $(XXVII)$

in which

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W, X, Y and Z are each as defined in Claim 1.

12. Compounds of the formula (XXXII)

$$Y \longrightarrow CO_2R^8$$
 (XXXII)

in which

W, X, Y and Z are each as defined in Claim 1 and

R8 represents alkyl.

13. Compounds of the formula (XXVII-b)

$$Y \longrightarrow CH_2\text{-}CO_2\text{H}$$
 (XXVII-b)

5 in which

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W, X and Y are each as defined in Claim 1.

14. Compounds of the formula (IV)

 $\begin{array}{c|c}
 & S & CO \\
 & W^{1} & B & X \\
 & Q & Y
\end{array}$ (IV)

in which

A, B, W, W¹, X, Y and Z are each as defined in Claim 1 and

R⁸ represents alkyl.

15. Compounds of the formula (V)

$$\begin{array}{c}
C = O \\
COHal \\
V
\end{array}$$
(V)

in which

5

W, X, Y and Z

are each as defined in Claim 1 and

Hal represents chlorine or bromine.

10 16. Compounds of the formula (XXXVII)

in which

W, X, Y and Z are each as defined in Claim 1.

17. Compounds of the formula (VI)

$$Y \xrightarrow{X} CO_2 R^8$$

$$CO_2 R^8$$

$$CO_2 R^8$$

20 in which

W, X, Y and Z are each as defined in Claim 1 and

R⁸ represents alkyl.

18. Compounds of the formula (X)

 R^8O_2C A B CO X X Y Z X

in which

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A, B, Q1, Q2, W, X, Y and Z are each as defined in Claim 1 and

R⁸ represents alkyl.

19. Compounds of the formula (XXXVIII)

in which

 $W,\,X,\,Y,\,Z,\,A,\,B,\,Q^{\,I}$ and $Q^{\,2}$ are each as defined in Claim 1.

20. Compounds of the formula (XXXIX)

$$Y \xrightarrow{X} Q^{1} Q^{2}$$

$$Z W O A B CO_{2}R^{8}$$

$$(XXXIX)$$

in which

5

A, B, D¹, D², W, X, Y and Z are each as defined in Claim 1 and

R⁸ and R⁸' each represent alkyl.

10 21. Compounds of the formula (XI)

$$Q^3$$
 Q^4
 Q^5
 Q^6
 A
 B
 CO
 X
 Y
 Z
 (XI)

in which

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A, B, Q³, Q⁴, Q⁵, Q⁶, W, X, Yand Zare each as defined in Claim 1 and

R8 represents alkyl.

22. Compounds of the formula (XLII)

in which

A, B, Q^3 , Q^4 , Q^5 , Q^6 , W, X, Y and Z

are each as defined in Claim 1.

23. Compounds of the formula (XLIII)

$$\begin{array}{c|c}
CO_{2}R^{8} \\
X & Q^{6} & Q^{5} & Q^{4} \\
\hline
Z & W & O & A & B & CO_{2}R^{8}
\end{array}$$
(XLIII)

in which

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R⁸ and R⁸' each represent alkyl.

- 24. Pesticides and/or herbicides, characterized in that they contain at least one compound of the formula (I) according to Claim 1.
- 25. Use of compounds of the formula (I) according to Claim I for controlling pests in crop protection, in the domestic sector, in the hygiene sector and in the protection of stored products.

- 26. Method for controlling pests in crop protection, in the domestic sector, in the hygiene sector and in the protection of stored products, characterized in that compounds of the formula (I) according to Claim 1 are allowed to act on the pests and/or their habitat.
- 27. Method for preparing pesticides and/or herbicides, characterized in that compounds of the formula (I) according to Claim 1 are mixed with extenders and/or surfactants.

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